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Nata

Client:

LumCAT: 1-0937-N

Luminaire: 92.70.246.00

Report No: 200728-C002

Test No: 200728-C002

LampCAT: CITIZEN CLU028

Lamp flux(lm): 1206.9

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 34.8800

Current(A): 0.2860

Power (W): 9.9750

PF: 0.0000

Ballast type: DC

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 939.38, Efficiency(%): 77.84% , Luminous Efficacy(lm/W): 94.17

Central intensity(cd): 2478.516, Maximum intensity(cd): 2478.516

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=35.4

[C90/270]Total=35.4

Field angle(10%Imax): [C0/180]Total=56.8

[C90/270]Total=56.8

Maximum s/h(1/2): C0_180=0.59 C90_270=0.59

Maximum s/h(1/4): C0_180=0.57 C90_270=0.57

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 77.84%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.156%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2478.516	0.000	0	.000%	.000%
1.0	2474.367	2.370	2.37	.196%	.252%
2.0	2460.305	7.083	9.453	.587%	1.006%
3.0	2438.930	11.717	21.17	.971%	2.254%
4.0	2411.508	16.236	37.406	1.345%	3.982%
5.0	2371.992	20.578	57.984	1.705%	6.173%
6.0	2326.359	24.691	82.675	2.046%	8.801%
7.0	2274.398	28.557	111.232	2.366%	11.841%
8.0	2211.891	32.108	143.34	2.660%	15.259%
9.0	2142.141	35.287	178.627	2.924%	19.015%
10.0	2063.391	38.059	216.685	3.154%	23.067%
11.0	1973.672	40.339	257.024	3.342%	27.361%
12.0	1885.500	42.186	299.21	3.496%	31.852%
13.0	1782.352	43.528	342.738	3.607%	36.486%
14.0	1669.219	44.180	386.918	3.661%	41.189%
15.0	1563.750	44.384	431.302	3.678%	45.913%
16.0	1452.305	44.194	475.495	3.662%	50.618%
17.0	1312.952	43.062	518.558	3.568%	55.202%
18.0	1206.450	41.539	560.097	3.442%	59.624%
19.0	1079.198	39.766	599.863	3.295%	63.857%
20.0	981.865	37.723	637.586	3.126%	67.873%
21.0	871.720	35.593	673.179	2.949%	71.662%
22.0	778.155	33.155	706.334	2.747%	75.191%
23.0	680.541	30.607	736.941	2.536%	78.450%
24.0	585.098	27.671	764.612	2.293%	81.395%
25.0	501.708	24.712	789.324	2.048%	84.026%
26.0	418.591	21.724	811.048	1.800%	86.339%
27.0	346.205	18.711	829.759	1.550%	88.330%
28.0	271.519	15.639	845.398	1.296%	89.995%
29.0	218.904	12.831	858.229	1.063%	91.361%
30.0	156.952	10.148	868.377	.841%	92.441%
31.0	115.734	7.588	875.965	.629%	93.249%
32.0	83.236	5.700	881.666	.472%	93.856%
33.0	61.966	4.278	885.943	.354%	94.311%
34.0	49.641	3.378	889.321	.280%	94.671%
35.0	41.189	2.821	892.142	.234%	94.971%
36.0	35.522	2.442	894.584	.202%	95.231%
37.0	31.676	2.192	896.776	.182%	95.465%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	28.252	2.000	898.776	.166%	95.678%
39.0	25.249	1.826	900.602	.151%	95.872%
40.0	23.063	1.685	902.287	.140%	96.051%
41.0	21.087	1.572	903.859	.130%	96.219%
42.0	19.245	1.465	905.325	.121%	96.375%
43.0	17.726	1.369	906.694	.113%	96.520%
44.0	16.404	1.288	907.982	.107%	96.658%
45.0	15.209	1.215	909.197	.101%	96.787%
46.0	14.140	1.148	910.345	.095%	96.909%
47.0	13.198	1.087	911.432	.090%	97.025%
48.0	12.347	1.033	912.465	.086%	97.135%
49.0	11.595	0.983	913.448	.081%	97.239%
50.0	10.856	0.936	914.384	.078%	97.339%
51.0	10.252	0.893	915.277	.074%	97.434%
52.0	9.738	0.858	916.135	.071%	97.525%
53.0	9.225	0.825	916.96	.068%	97.613%
54.0	8.768	0.793	917.753	.066%	97.698%
55.0	8.409	0.767	918.52	.064%	97.779%
56.0	8.058	0.744	919.264	.062%	97.859%
57.0	7.741	0.722	919.986	.060%	97.935%
58.0	7.481	0.704	920.69	.058%	98.010%
59.0	7.249	0.689	921.379	.057%	98.084%
60.0	7.031	0.675	922.053	.056%	98.156%
61.0	6.799	0.660	922.713	.055%	98.226%
62.0	6.623	0.647	923.36	.054%	98.295%
63.0	6.469	0.637	923.997	.053%	98.362%
64.0	6.314	0.627	924.624	.052%	98.429%
65.0	6.180	0.618	925.243	.051%	98.495%
66.0	6.061	0.611	925.853	.051%	98.560%
67.0	5.970	0.605	926.458	.050%	98.624%
68.0	5.857	0.599	927.057	.050%	98.688%
69.0	5.780	0.594	927.651	.049%	98.751%
70.0	5.695	0.589	928.24	.049%	98.814%
71.0	5.625	0.585	928.825	.048%	98.876%
72.0	5.548	0.581	929.406	.048%	98.938%
73.0	5.484	0.577	929.983	.048%	99.000%
74.0	5.414	0.573	930.556	.047%	99.061%
75.0	5.386	0.571	931.127	.047%	99.121%

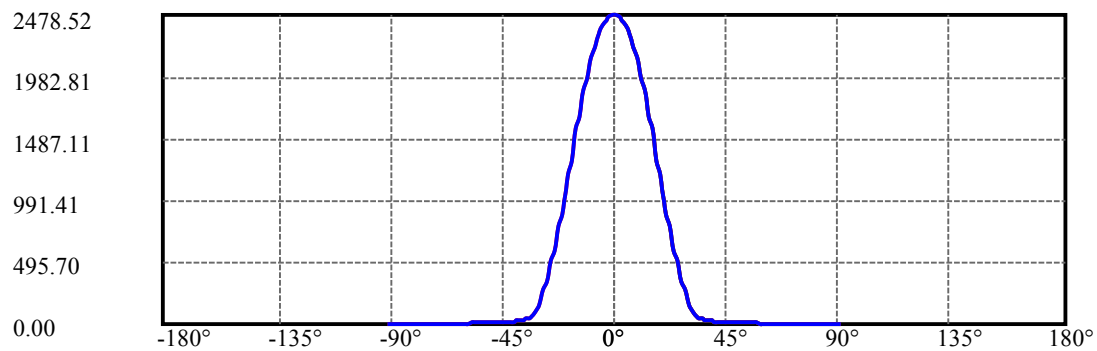
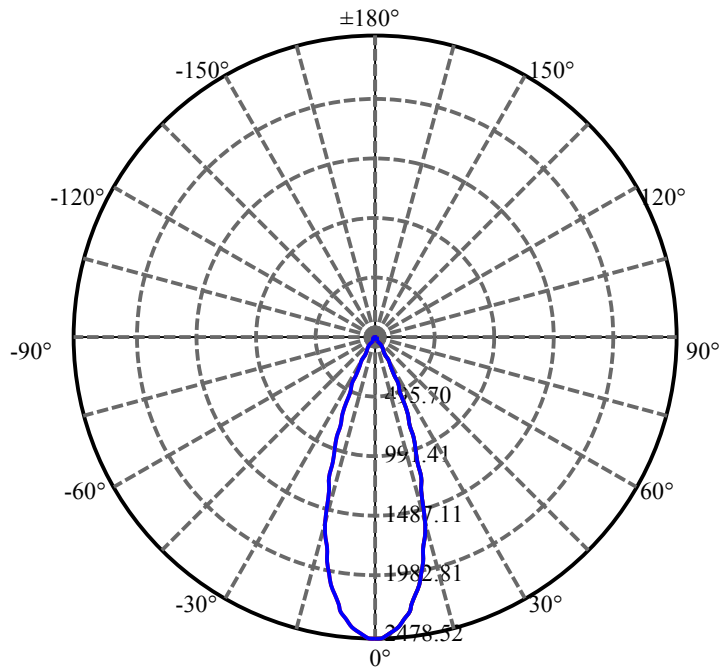
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.337	0.569	931.696	.047%	99.182%
77.0	5.302	0.567	932.263	.047%	99.242%
78.0	5.252	0.565	932.828	.047%	99.303%
79.0	5.203	0.562	933.39	.047%	99.362%
80.0	5.182	0.560	933.95	.046%	99.422%
81.0	5.147	0.559	934.508	.046%	99.481%
82.0	5.175	0.560	935.068	.046%	99.541%
83.0	5.175	0.563	935.631	.047%	99.601%
84.0	5.140	0.562	936.193	.047%	99.661%
85.0	5.126	0.560	936.753	.046%	99.720%
86.0	5.070	0.557	937.31	.046%	99.780%
87.0	4.781	0.539	937.849	.045%	99.837%
88.0	4.669	0.518	938.367	.043%	99.892%
89.0	4.613	0.509	938.876	.042%	99.946%
90.0	4.584	0.504	939.38	.042%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	868.38	71.95%	92.44%
0-40	902.29	74.76%	96.05%
0-60	922.05	76.40%	98.16%
0-90	938.88	77.80%	99.95%
0-120	938.88	77.80%	99.95%
0-180	939.38	77.84%	100.00%
60-90	17.50	1.45%	1.86%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-23.53	751.50	62.27%	80.00%

ZONAL LUMEN SUMMARY

0-10	216.69
10-20	420.90
20-30	230.79
30-40	33.91
40-50	12.10
50-60	7.67
60-70	6.19
70-80	5.71
80-90	4.93
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



C0(Max):

C0/C180:

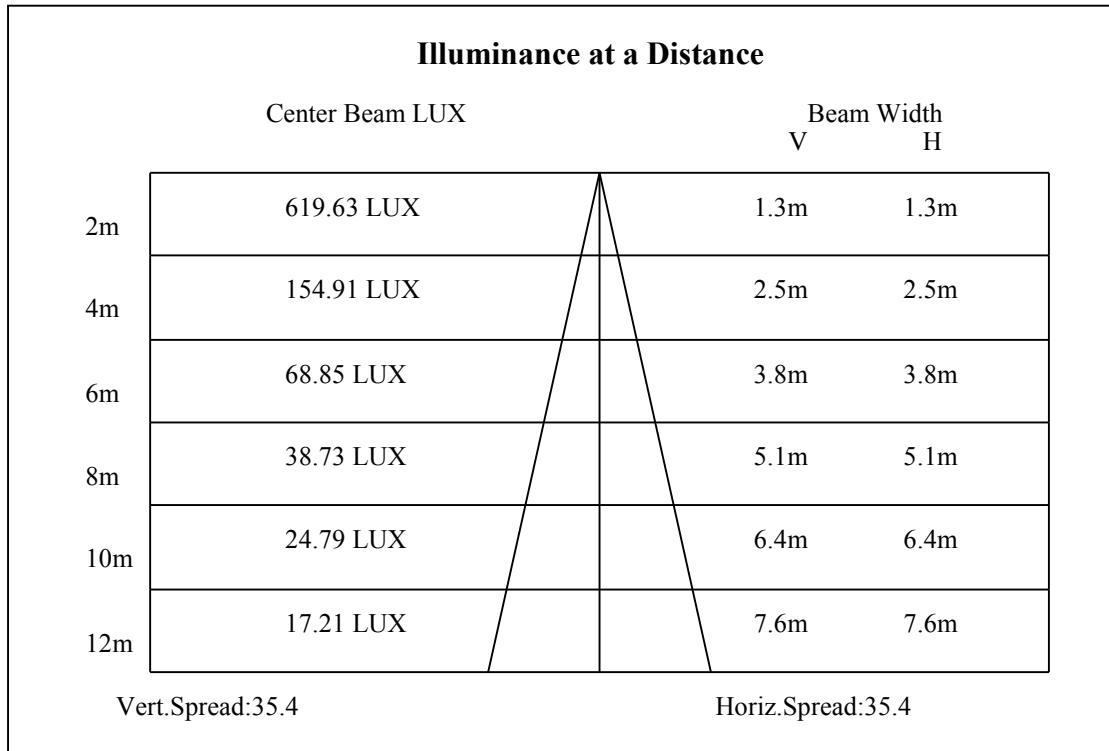
C90/C270:

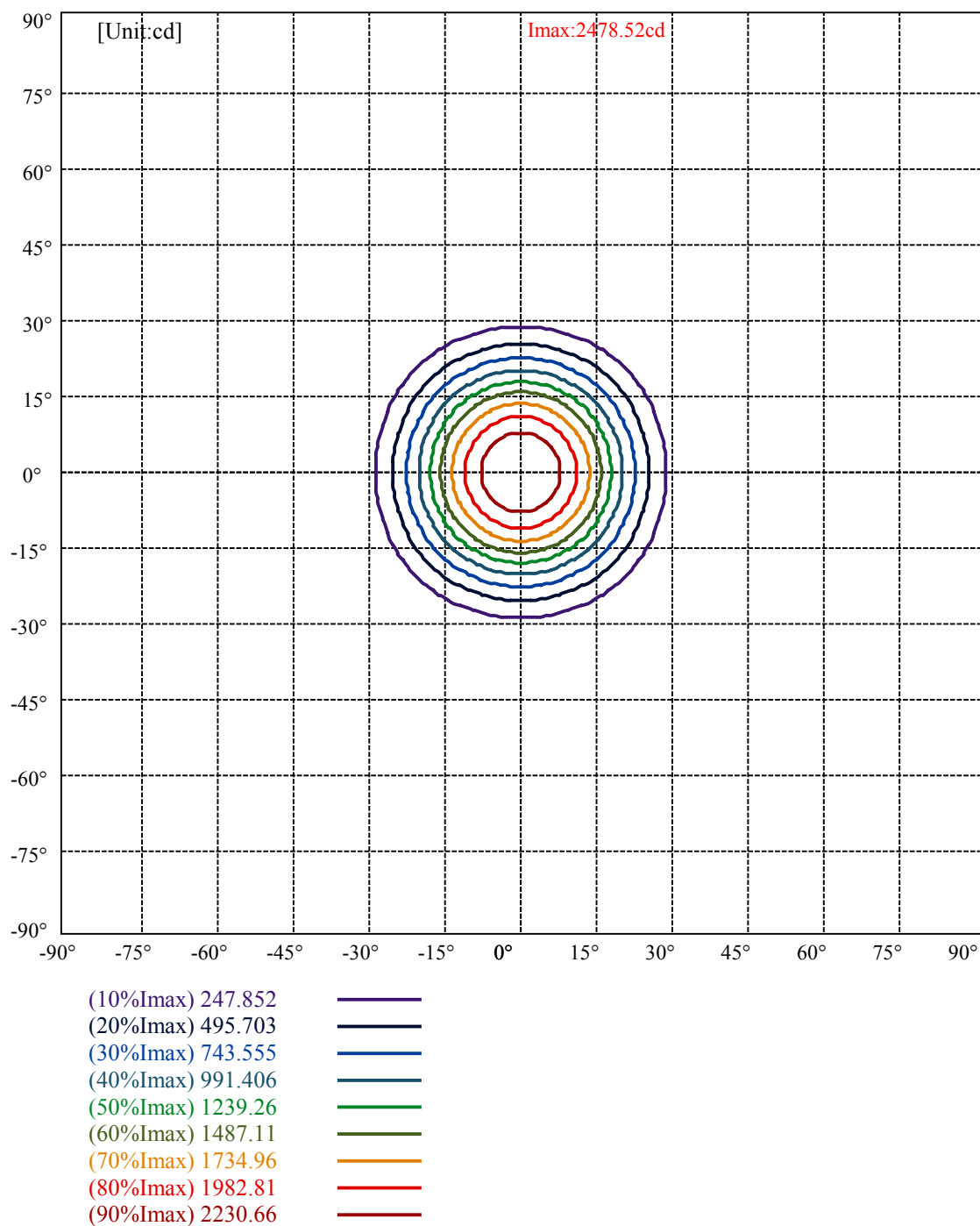
Field angle(10%Imax):C0/180Left:28.4 Right:28.4

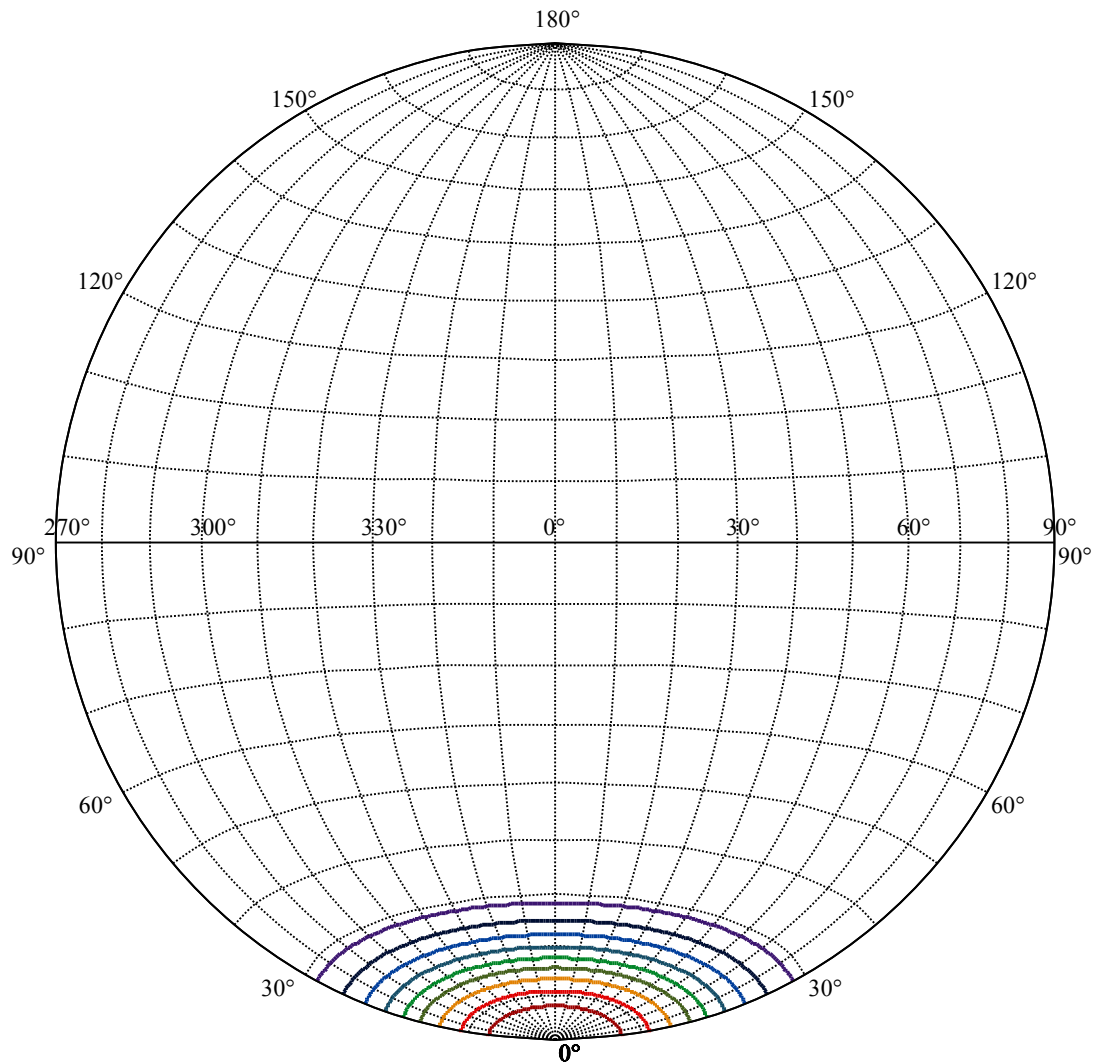
:C90/270Left:28.4 Right:28.4

Beam Angle(50%Imax):C0/180Left:17.7 Right:17.7

:C90/270Left:17.7 Right:17.7







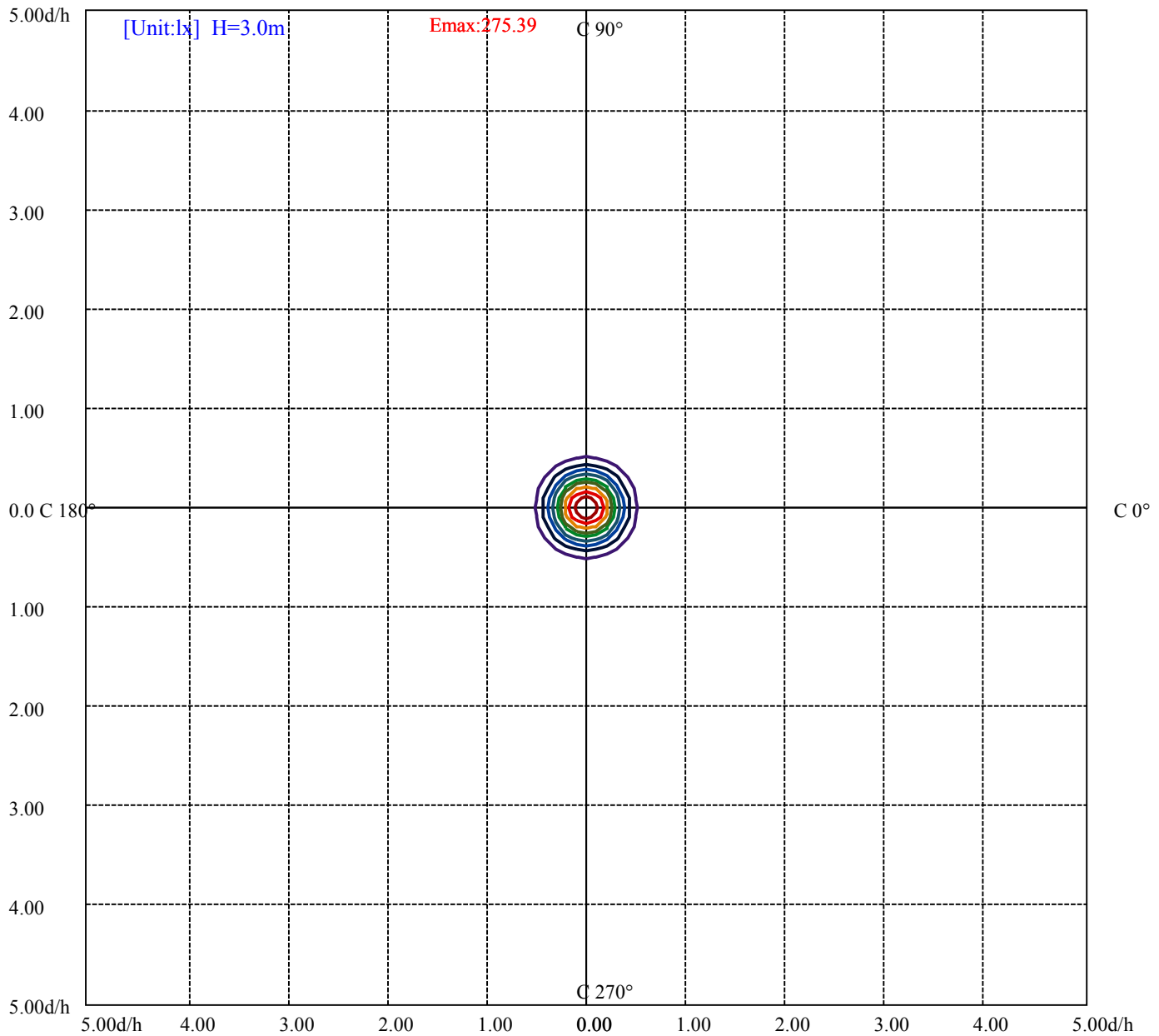
House

[Unit:cd]

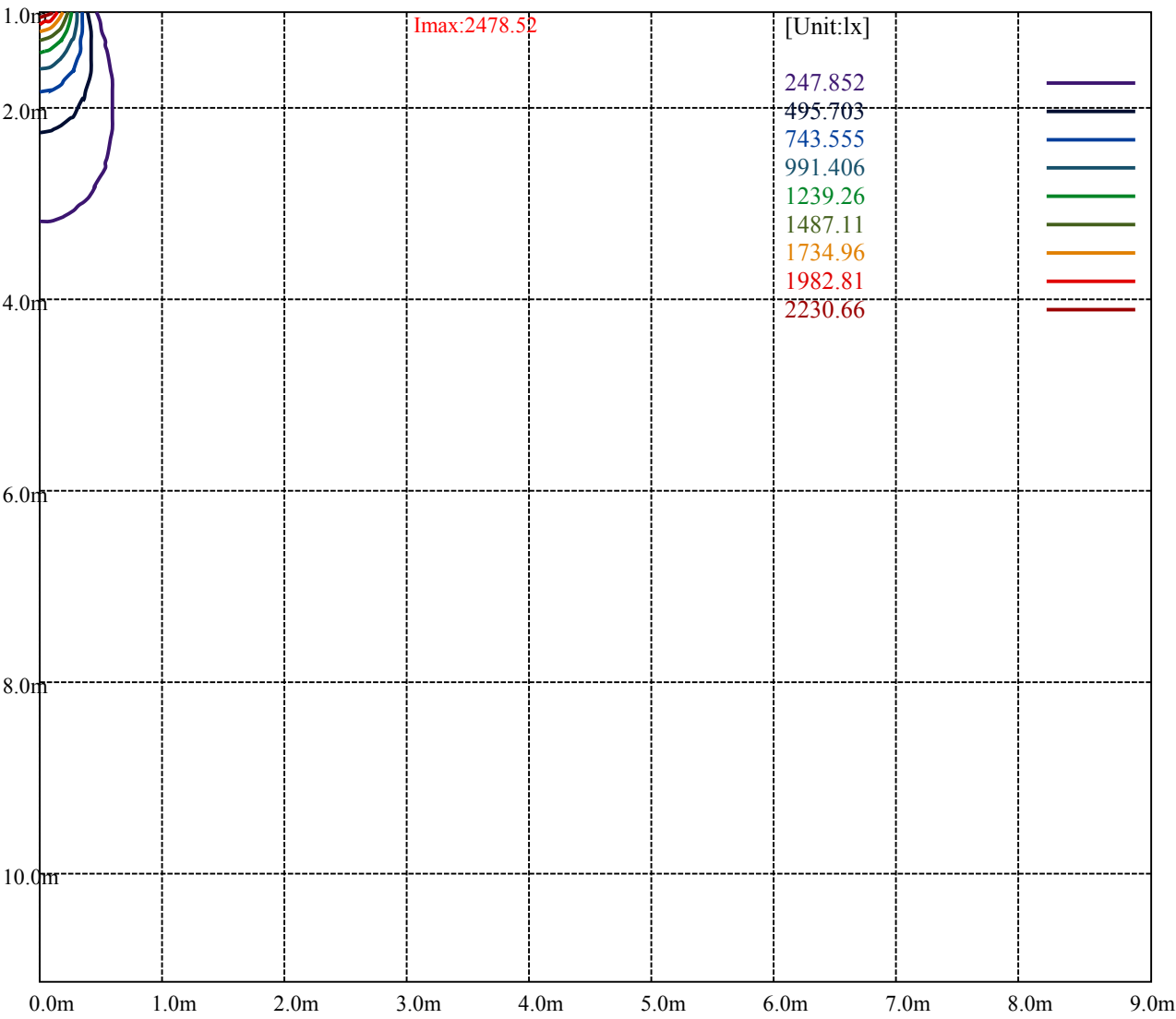
Road

Imax:2478.52

(10%Imax)	247.852	—
(20%Imax)	495.703	—
(30%Imax)	743.555	—
(40%Imax)	991.406	—
(50%Imax)	1239.26	—
(60%Imax)	1487.11	—
(70%Imax)	1734.96	—
(80%Imax)	1982.81	—
(90%Imax)	2230.66	—



(10%Emax) 27.539	—
(20%Emax) 55.07811	—
(30%Emax) 82.61711	—
(40%Emax) 110.1562	—
(50%Emax) 137.6956	—
(60%Emax) 165.2344	—
(70%Emax) 192.7733	—
(80%Emax) 220.3122	—
(90%Emax) 247.8511	—



Luminance Table

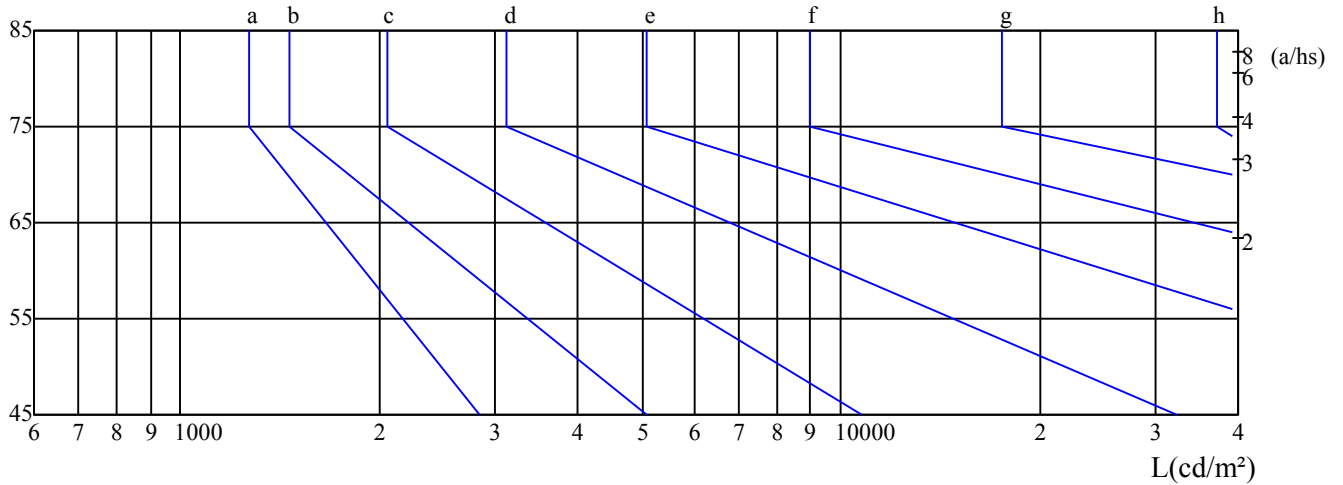
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

 $\gamma(^{\circ})$ 

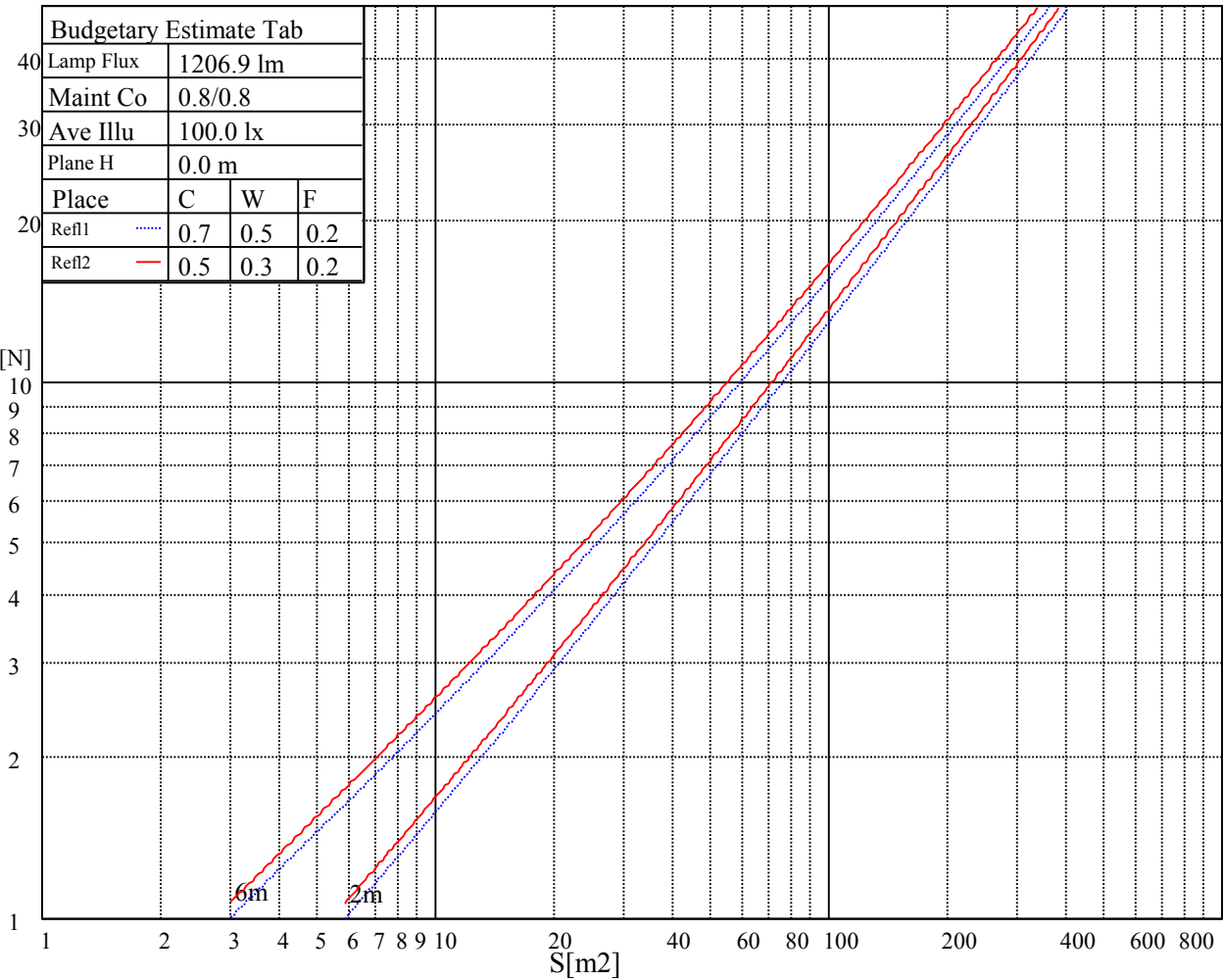
C0 ———

C45 ———

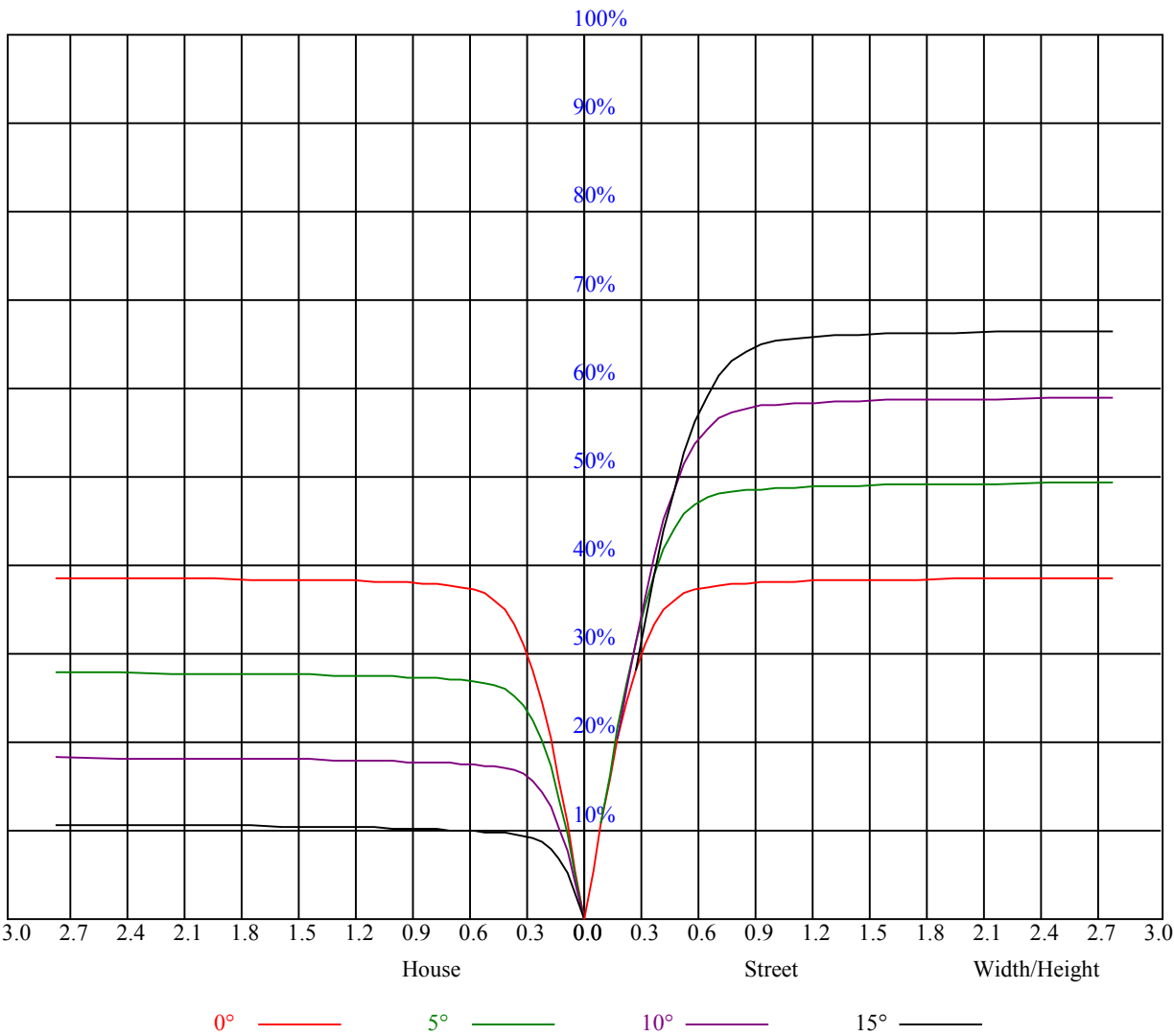
C90 ———

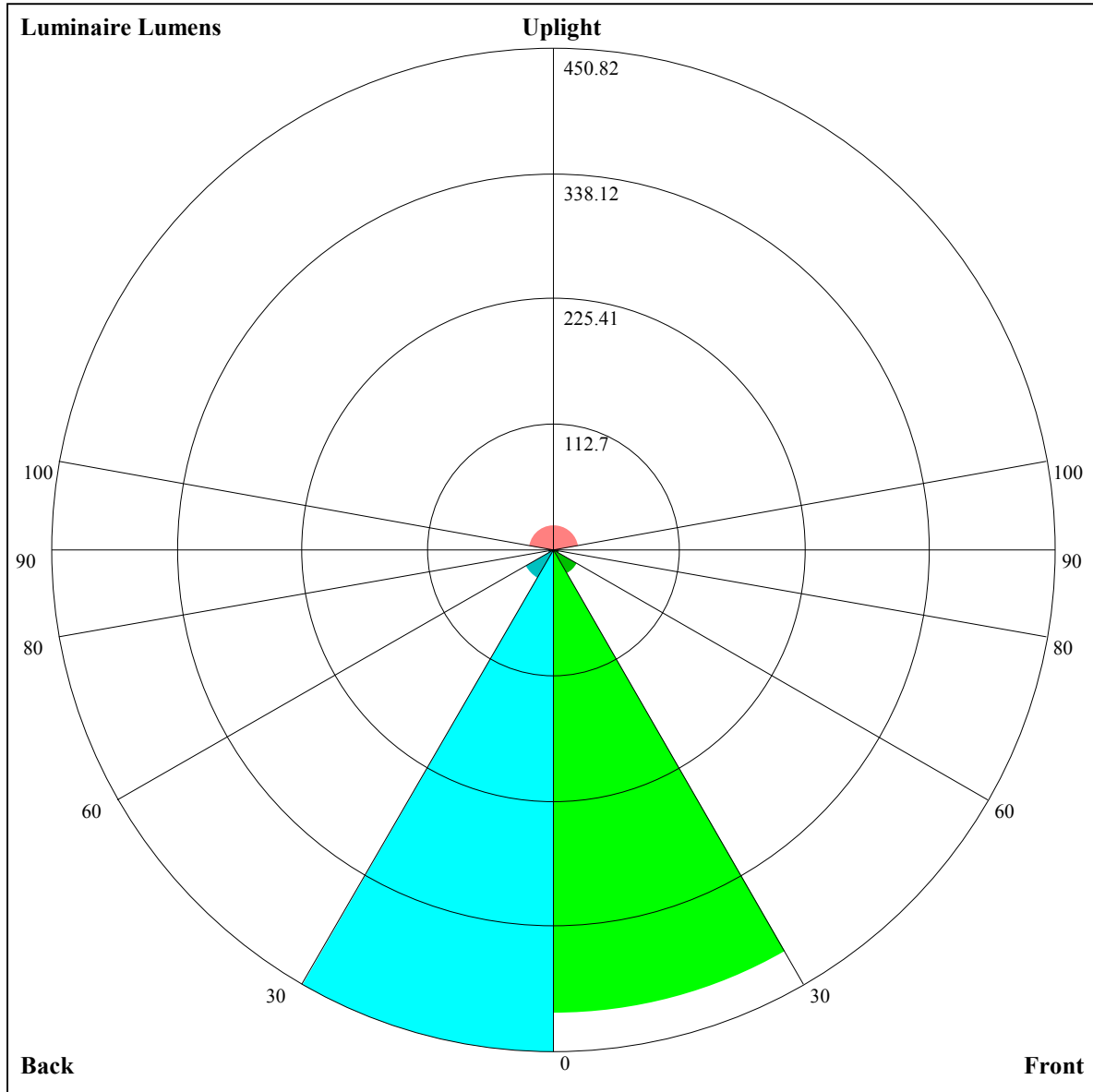
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
4H	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
8H	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
12H	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
Variation with the observer position at spacings:											
S = 1.0H		非数字/非数字					非数字/非数字				
S = 1.5H		非数字/非数字					非数字/非数字				
S = 2.0H		非数字/非数字					非数字/非数字				
Standard tables:		BK0					BK0				
Uncorrected UGR		负无穷大					负无穷大				

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



RHOC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	0.93	0.93	0.93	0.91	0.91	0.91	0.86	0.86	0.86	0.83	0.83	0.83	0.79	0.79	0.79	0.78
1	0.87	0.85	0.84	0.85	0.84	0.82	0.82	0.81	0.80	0.79	0.78	0.77	0.77	0.76	0.75	0.74
2	0.82	0.79	0.77	0.81	0.78	0.76	0.78	0.76	0.75	0.76	0.75	0.73	0.74	0.73	0.72	0.70
3	0.78	0.75	0.72	0.77	0.74	0.72	0.75	0.73	0.71	0.73	0.71	0.69	0.71	0.70	0.68	0.67
4	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.70	0.68	0.66	0.69	0.67	0.65	0.64
5	0.71	0.67	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.67	0.65	0.63	0.62
6	0.68	0.64	0.62	0.67	0.64	0.61	0.66	0.63	0.61	0.65	0.63	0.61	0.64	0.62	0.60	0.59
7	0.65	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.63	0.60	0.58	0.62	0.60	0.58	0.57
8	0.63	0.59	0.57	0.62	0.59	0.56	0.62	0.59	0.56	0.61	0.58	0.56	0.60	0.58	0.56	0.55
9	0.61	0.57	0.54	0.60	0.57	0.54	0.60	0.56	0.54	0.59	0.56	0.54	0.58	0.56	0.54	0.53
10	0.58	0.55	0.52	0.58	0.55	0.52	0.58	0.54	0.52	0.57	0.54	0.52	0.56	0.54	0.52	0.51





Luminaire Lumens:

FL=416.7,FM=25.17,FH=5.93,FVH=2.73

BL=450.82,BM=29.9,BH=5.99,BVH=2.67

UL=5,UH=23.8

BUG Rating:B1-U2-G0

Intensity data(cd)

Appendix Page: 18 Total:20

C/ γ (°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	2476.13	2467.13	2448.00	2418.75	2390.06	2336.06	2290.50	2233.69	2162.25
45.0	2477.81	2467.69	2443.50	2410.31	2372.06	2323.13	2266.88	2210.06	2153.25
90.0	2477.25	2463.19	2435.06	2408.06	2371.50	2324.81	2270.25	2212.31	2139.19
135.0	2482.88	2482.31	2472.19	2451.94	2429.44	2395.69	2346.19	2299.50	2241.00
180.0	2476.13	2478.94	2468.81	2457.00	2432.81	2396.81	2364.75	2311.88	2248.31
225.0	2477.81	2480.63	2479.50	2466.00	2447.44	2423.81	2391.75	2337.75	2289.94
270.0	2477.25	2479.50	2475.56	2464.31	2444.63	2416.50	2376.56	2337.19	2282.06
315.0	2482.88	2475.56	2459.81	2435.06	2404.13	2359.13	2304.00	2252.81	2179.13
360.0	2476.13	2467.13	2448.00	2418.75	2390.06	2336.06	2290.50	2233.69	2162.25
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2083.50	2007.56	1911.38	1820.25	1711.69	1593.00	1484.44	1358.44	1231.31
45.0	2057.06	1973.81	1899.00	1783.69	1671.19	1579.50	1445.63	1323.00	1227.38
90.0	2070.00	1978.88	1881.00	1790.44	1684.13	1566.56	1460.81	1351.69	1119.43
135.0	2171.25	2103.75	2015.44	1933.31	1830.38	1724.63	1626.19	1521.00	1387.13
180.0	2191.50	2116.69	2019.38	1948.50	1860.75	1732.50	1646.44	1542.94	1420.88
225.0	2236.50	2153.25	2075.06	1992.38	1900.69	1783.13	1681.88	1573.88	1451.25
270.0	2219.63	2151.56	2063.25	1983.94	1878.75	1770.75	1667.81	1560.38	1419.75
315.0	2107.69	2021.63	1924.88	1831.50	1721.25	1603.69	1496.81	1387.13	1246.50
360.0	2083.50	2007.56	1911.38	1820.25	1711.69	1593.00	1484.44	1358.44	1231.31
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1123.88	1018.13	892.13	797.63	709.88	602.44	518.63	441.00	357.75
45.0	1091.25	986.06	888.75	772.31	683.44	599.06	493.31	416.81	344.25
90.0	1105.09	997.99	886.44	782.27	694.58	598.16	506.25	427.73	345.88
135.0	1275.75	1166.63	1037.81	933.19	835.88	735.19	632.25	549.00	457.31
180.0	1299.38	1118.70	1079.44	947.53	849.99	761.57	662.74	567.00	487.35
225.0	1325.81	1118.03	1090.80	974.08	873.00	769.50	681.58	587.53	495.28
270.0	1308.38	1199.81	1064.25	958.50	860.06	758.25	659.81	576.00	493.31
315.0	1122.08	1028.25	915.30	808.26	718.43	620.16	526.22	448.59	367.59
360.0	1123.88	1018.13	892.13	797.63	709.88	602.44	518.63	441.00	357.75
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	290.25	220.89	163.74	121.67	84.49	59.74	47.64	40.28	34.82
45.0	288.00	203.18	153.73	108.23	76.39	59.40	47.59	41.06	35.72
90.0	280.41	214.14	157.05	115.99	85.67	61.82	51.30	44.49	37.80
135.0	387.56	311.63	288.00	181.69	135.17	96.64	69.98	54.79	45.06
180.0	401.74	333.06	260.61	197.55	149.91	106.31	74.98	57.49	47.08
225.0	416.98	334.01	262.35	205.37	156.71	108.34	80.04	60.81	47.81
270.0	405.00	324.00	291.94	195.24	142.88	109.74	74.36	56.42	45.68
315.0	299.70	231.24	173.81	129.88	94.67	63.90	49.84	41.79	35.55
360.0	290.25	220.89	163.74	121.67	84.49	59.74	47.64	40.28	34.82
C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	31.05	27.96	24.69	22.56	20.76	18.96	17.38	16.26	15.02
45.0	31.11	28.13	25.14	22.67	20.81	19.07	17.27	16.03	14.96
90.0	33.53	30.09	26.55	24.13	22.11	19.80	18.51	16.99	15.47
135.0	38.70	34.26	30.71	27.06	24.64	22.78	20.25	18.68	17.27
180.0	39.21	34.65	30.99	27.62	24.75	22.61	20.64	18.84	17.44
225.0	40.56	35.72	31.44	27.84	25.37	23.01	21.15	19.24	17.72
270.0	38.25	33.86	30.38	26.72	24.47	22.50	20.42	18.90	17.55
315.0	31.78	28.74	26.10	23.40	21.60	19.97	18.34	16.88	15.81
360.0	31.05	27.96	24.69	22.56	20.76	18.96	17.38	16.26	15.02

Intensity data(cd)										Appendix Page: 19 Total:20	
C/ γ (°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0		
0.0	13.89	13.05	12.15	11.48	10.74	10.13	9.62	9.17	8.66		
45.0	13.84	12.88	12.15	11.36	10.69	10.13	9.56	9.17	8.72		
90.0	14.57	13.50	12.49	11.87	11.14	10.35	9.90	9.45	8.94		
135.0	15.92	14.74	13.89	12.83	12.09	11.31	10.58	10.01	9.51		
180.0	16.09	15.02	13.95	12.99	12.15	11.36	10.69	10.13	9.56		
225.0	16.48	15.30	14.06	13.16	12.38	11.48	10.86	10.29	9.73		
270.0	16.26	15.02	14.12	13.16	12.32	11.53	10.80	10.18	9.68		
315.0	14.63	13.61	12.77	11.93	11.25	10.58	10.01	9.51	9.00		
360.0	13.89	13.05	12.15	11.48	10.74	10.13	9.62	9.17	8.66		
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0		
0.0	8.33	7.99	7.65	7.43	7.20	6.98	6.81	6.58	6.41		
45.0	8.27	7.99	7.71	7.48	7.20	7.03	6.81	6.64	6.47		
90.0	8.55	8.21	7.88	7.59	7.37	7.09	6.92	6.69	6.53		
135.0	9.00	8.66	8.27	7.93	7.65	7.43	7.14	6.92	6.75		
180.0	9.00	8.61	8.27	7.88	7.65	7.37	7.14	6.92	6.75		
225.0	9.23	8.78	8.38	7.99	7.71	7.43	7.26	6.98	6.75		
270.0	9.23	8.83	8.44	8.04	7.76	7.54	7.26	7.03	6.81		
315.0	8.55	8.21	7.88	7.59	7.31	7.14	6.92	6.64	6.53		
360.0	8.33	7.99	7.65	7.43	7.20	6.98	6.81	6.58	6.41		
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0		
0.0	6.30	6.13	6.02	5.96	5.85	5.74	5.68	5.63	5.51		
45.0	6.36	6.24	6.13	6.08	5.96	5.91	5.85	5.74	5.74		
90.0	6.41	6.30	6.13	6.02	5.96	5.85	5.74	5.68	5.63		
135.0	6.64	6.41	6.24	6.08	6.02	5.91	5.85	5.74	5.63		
180.0	6.53	6.36	6.19	6.08	5.96	5.85	5.79	5.68	5.63		
225.0	6.58	6.41	6.30	6.13	6.08	5.91	5.85	5.79	5.68		
270.0	6.64	6.47	6.36	6.19	6.08	5.96	5.85	5.74	5.68		
315.0	6.30	6.19	6.08	5.96	5.85	5.74	5.63	5.57	5.51		
360.0	6.30	6.13	6.02	5.96	5.85	5.74	5.68	5.63	5.51		
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0		
0.0	5.46	5.40	5.29	5.29	5.23	5.23	5.18	5.12	5.12		
45.0	5.68	5.63	5.63	5.63	5.63	5.63	5.63	5.68	5.68		
90.0	5.51	5.46	5.40	5.34	5.29	5.23	5.18	5.12	5.12		
135.0	5.57	5.51	5.40	5.40	5.34	5.29	5.23	5.12	5.12		
180.0	5.51	5.46	5.40	5.34	5.29	5.23	5.18	5.12	5.06		
225.0	5.63	5.57	5.46	5.46	5.46	5.40	5.40	5.34	5.29		
270.0	5.57	5.51	5.46	5.34	5.29	5.29	5.18	5.12	5.06		
315.0	5.46	5.34	5.29	5.29	5.18	5.12	5.06	5.01	5.01		
360.0	5.46	5.40	5.29	5.29	5.23	5.23	5.18	5.12	5.12		
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0		
0.0	5.06	5.12	5.12	5.01	4.89	4.78	4.67	4.61	4.56		
45.0	5.74	6.13	6.30	6.53	6.64	6.36	4.67	4.61	4.56		
90.0	5.06	5.06	5.01	4.95	4.89	4.78	4.78	4.67	4.61		
135.0	5.06	5.01	5.01	4.95	4.89	4.84	4.78	4.73	4.67		
180.0	5.01	5.01	4.95	4.89	4.84	4.84	4.89	4.67	4.61		
225.0	5.29	5.18	5.18	5.12	5.23	5.40	5.01	4.67	4.61		
270.0	5.01	5.01	4.95	4.84	4.84	4.78	4.73	4.73	4.67		
315.0	4.95	4.89	4.89	4.84	4.78	4.78	4.73	4.67	4.61		
360.0	5.06	5.12	5.12	5.01	4.89	4.78	4.67	4.61	4.56		

Intensity data(cd)

Appendix Page: 20 Total:20

C/γ(°)	90.0
0.0	4.56
45.0	4.56
90.0	4.61
135.0	4.61
180.0	4.61
225.0	4.56
270.0	4.61
315.0	4.56
360.0	4.56